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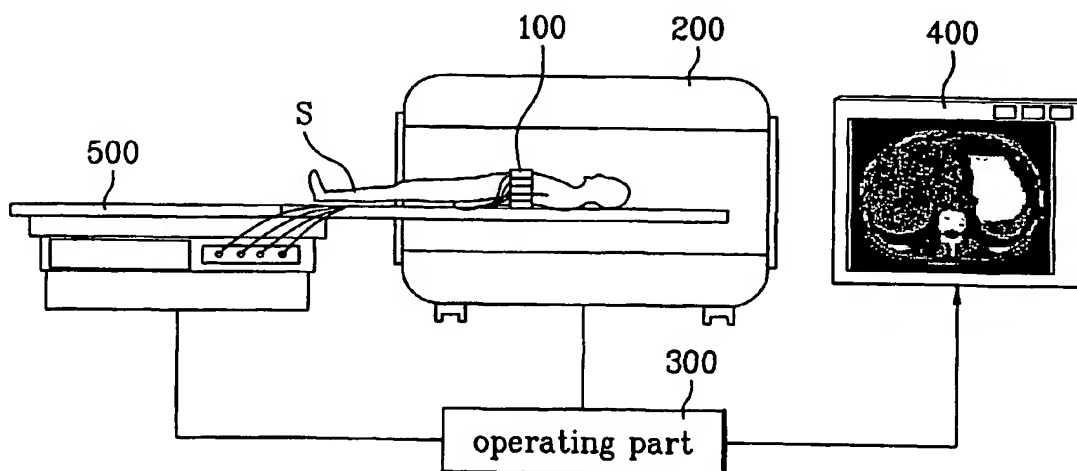
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[Continued on next page]

(54) Title: SYSTEM AND METHOD FOR THREE-DIMENSIONAL VISUALIZATION OF CONDUCTIVITY AND CURRENT DENSITY DISTRIBUTION IN ELECTRICALLY CONDUCTING OBJECT



(57) Abstract: System for visualizing conductivity and current density distributions including a plurality of current injecting devices (100) for injecting currents into a measuring object, an MRI scanner (200) for measuring one directional component of a magnetic flux density due to each of the currents injected into a measuring object, an operating part (300) for controlling the current injecting devices (100) so as to inject currents of different directions into the measuring object, and calculating a conductivity distribution and a current density distribution inside of the measuring object by using the one directional component of a magnetic flux density, and displaying means (400) for visualizing the conductivity and current density distributions calculated by the operating part (300), thereby permitting to visualize the conductivity and the current density of the measuring object more accurately.



ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE,
SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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INTERNATIONAL SEARCH REPORT

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PCT/KR 03/02825-0

CLASSIFICATION OF SUBJECT MATTER

IPC⁷: A61B 5/05

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC⁷: A61B 5/05

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

WPI

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6501984 B1 (CHURCH) 31 December 2002 (31.12.2002) <i>abstract, claim 1, fig. 2.</i>	1,10
A	US 5465730 A (ZADEHKOOCHAK) 14 November 1995 (14.11.1995) <i>abstract, claim 1.</i>	1,10

☐ Further documents are listed in the continuation of Box C.

☒ See patent family annex.

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INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report			Publication date	Patent family member(s)			Publication date
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